

COUNTY OF SUFFOLK



ROBERT J. GAFFNEY
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

MARY E. HIBBERD, M.D., M.P.H.
COMMISSIONER

May 19, 1993

Debra Felton, P.E., Remedial Project Manager
Naval Facilities Engineering Command
10 Industrial Highway -- Mail Stop 82
Lester, Pennsylvania 19113-2090

Re: Calverton Compost Demonstration Site

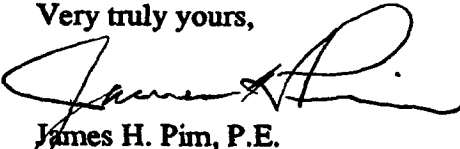
Dear Ms. Felton:

This is in reply to your letter of March 11, 1993 requesting permission to sample the county wells located on Omni property to the east of the Grumman ECM site. I brought your request to the attention of the members of the compost study project team at their meeting on March 15, 1993 at which a representative from the Omni Corporation was present.

Permission for sampling was granted with the request that our office be notified when sampling is to take place so that a representative can be present and that the sampling data be shared as you suggested.

A memo from Richard Markel is attached which provides a description of the wells and the installation. Also included is a map of their locations, giving the direction of the groundwater flow.

Very truly yours,


James H. Pim, P.E.
Associate Public Health Engineer
Office of Pollution Control

jhp/kcn
enclosure.

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MARY E. HIBBERD, M.D., M.P.H.
COMMISSIONER

Date: May 3, 1993
To: Jim Pim, P.E.
From: Richard Markel, P.E.
Subject: Summary of the well installation details at the
Calverton compost demonstration site

During April and May of 1992, seven protocol wells were installed by the B-53 drilling crew at the Calverton compost demonstration site. The wells were installed as per New York State Phase II Type Investigation Protocols, which included steam cleaning the equipment, gravel packing the well screen annular space and grouting and cementing the remaining annular space above the well screen.

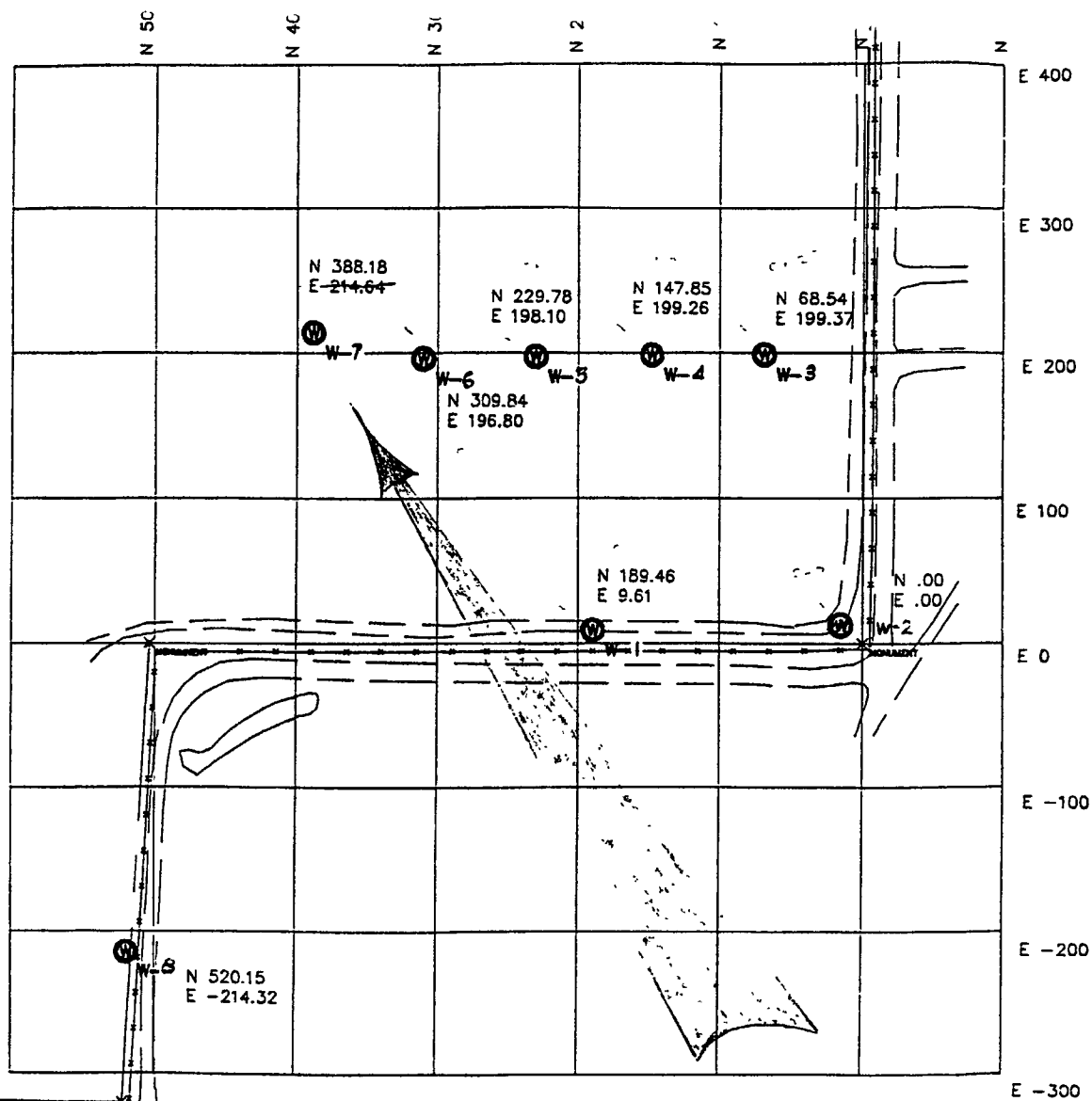
All seven wells were drilled by the hollow stem auger method to a depth of 46 feet to 47 feet below grade and installed with 20 feet of 2" diameter flush threaded screen (the screen was positioned to cut the water table, i.e. 10 feet of screen was above the water table and 10 feet of screen was below the water table), and 2" diameter flush threaded schedule 40 pvc pipe. The wells were installed into meter boxes and provided with dedicated bailers and rope.

The well installation details are summarized in the table below.

**SUMMARY OF WELL INSTALLATION DETAILS ~ CALVERTON COMPOST
DEMONSTRATION SITE**

| Well # | Depth Below Grade (Ft) of Well | Elevation Above Sea Level (Ft) of Water Table | Depth To Water (Ft) (5.28.92) | Elevation of Measuring Point (Top of Well) |
|---------------|---|--|--|---|
| <hr/> | | | | |
| W-1 | 46 | 32.25 | 35.54 | 67.79 |
| W-2 | 46 | 32.41 | 36.46 | 68.87 |
| W-3 | 47 | 32.05 | 35.68 | 67.73 |
| W-4 | 46 | 31.98 | 35.84 | 67.82 |
| W-5 | 47 | 31.86 | 36.99 | 68.85 |
| W-6 | 46 | 31.76 | 37.36 | 69.12 |
| W-7 | 47 | 31.63 | 35.28 | 66.91 |

The location of these wells are shown on the attached map. The groundwater flow direction was determined to be in a northeasterly direction, which agrees with the regional groundwater table map.



OMNI COMPOST STUDY
 GROUNDWATER FLOW DIRECTION
 FROM 5/28/92 WATER LEVEL
 READINGS